

**UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION**

NEXTGEN INNOVATIONS, LLC,

Plaintiff,

v.

NOKIA OF AMERICA CORPORATION,
NOKIA CORPORATION, NOKIA
NETWORKS, NOKIA SOLUTIONS AND
NETWORKS OY, NOKIA USA INC., NOKIA
NETWORKS INC., AND NOKIA
SOLUTIONS AND NETWORKS US LLC,

Defendants.

Case No. 2:22-cv-0309

JURY TRIAL DEMANDED

**COMPLAINT FOR PATENT INFRINGEMENT AGAINST
NOKIA OF AMERICA CORPORATION, NOKIA CORPORATION, NOKIA
NETWORKS, NOKIA SOLUTIONS AND NETWORKS OY, NOKIA USA INC., NOKIA
NETWORKS INC., AND NOKIA SOLUTIONS AND NETWORKS US LLC**

1. This is an action for patent infringement arising under the Patent Laws of the United States of America, 35 U.S.C. § 1 *et seq.*, in which Plaintiff NextGen Innovations, LLC (“Plaintiff” or “NextGen”) makes the following allegations against Defendants Nokia of America Corporation, Nokia Corporation, Nokia Networks, Nokia Solutions and Networks OY, Nokia USA Inc., Nokia Networks Inc., and Nokia Solutions and Networks US LLC (“Defendants” or “Nokia”):

INTRODUCTION

2. Nokia infringes the following United States patents that relate to improvements to optical networking systems: United States Patent No. 8,238,754 (the “‘754 patent”), United States Patent No. 9,887,795 (the “‘795 patent”), United States Patent No. 10,263,723 (the “‘723 patent”),

and United States Patent No. 10,771,181 (the “181 patent”) (collectively, the “Asserted Patents”).

Plaintiff is the exclusive licensee of the Asserted Patents.

PARTIES

3. NextGen is a Nevada limited liability company with its principal place of business at 5348 Vegas Drive, No. 396, Las Vegas, Nevada 89108. NextGen is the exclusive licensee of all right, title, and interest in the Asserted Patents.

4. On information and belief, Nokia of America Corporation is a Delaware corporation with a principal place of business at 600 Mountain Avenue, Suite 700, Murray Hill, New Jersey 07974. Nokia of America Corporation also has a significant place of business in this District at 2525 Highway 121, Lewisville, Texas 75056-5006 and 601 Data Drive, Plano, Texas 75075-7839, as well as other places within Texas, including at least 10431 Morado Circle, Building V, Austin, Texas 78759-6247 and 3201 Olympus Boulevard, Dallas, Texas 75019-4520. On information and belief, Nokia of America Corporation was formed in part through the acquisition of Alcatel-Lucent.

5. On information and belief, Nokia Corporation is a Finnish corporation with its principal place of business at Karaportti 3, FI-02610 Espoo, Finland. On information and belief, Nokia Corporation acquired Alcatel-Lucent S.A. in 2016.

6. On information and belief, Nokia Networks is a Finnish corporation with its principal place of business at Karaportti 3, FI-02610 Espoo, Finland.

7. On information and belief, Nokia Solutions and Networks OY is a Finnish corporation with its principal place of business at Karaportti 3, FI-02610 Espoo, Finland.

8. On information and belief, Nokia USA Inc. is a Delaware corporation with its principal place of business at 200 S. Mathilda Avenue, Sunnyvale, California 94086.

9. On information and belief, Nokia Networks Inc. is a Delaware corporation with its principal place of business at 6000 Connection Drive, Irving, Texas 75039.

10. On information and belief, Nokia Solutions and Networks US LLC is a Delaware corporation with its principal place of business at 6000 Connection Drive, Irving, Texas 75039.

11. On information and belief, Nokia also maintains a data center in Plano, Texas.

<https://www.nokia.com/about-us/company/worldwide-presence/north-america/> (

Our presence in North America

~10,000 employees

26 office locations

2 Data centers – Chicago, Illinois and Plano, Texas

3 Innovation centers - Murray Hill, New Jersey; Dallas, Texas; and Mountain View, California

90% of the US population is connected by our network solutions

Our fixed networks power more than 50% of the telco fixed broadband lines in the US

41% of our top 100 supplier spending is with US-based businesses, a significant investment in the US economy

7.4% of Nokia US supplier spending is with diverse vendors
US headquarters - Dallas, Texas

Canadian headquarters - Ottawa, Canada

Office locations

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JURISDICTION AND VENUE

12. This action arises under the patent laws of the United States, Title 35 of the United States Code. This Court has original subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).

13. This Court has personal jurisdiction over Nokia in this action because Nokia has committed acts within this District giving rise to this action and has established minimum contacts with this forum such that the exercise of jurisdiction over Nokia would not offend traditional notions of fair play and substantial justice. Nokia, directly and through subsidiaries or intermediaries, has committed and continues to commit acts of infringement in this District by,

among other things, importing, offering to sell, and selling products that infringe the Asserted Patents.

14. Venue is proper in this District under 28 U.S.C. §§ 1331(b)-(c) and 1400(b). Nokia is registered to do business in Texas. Additionally, upon information and belief, Nokia has transacted business in this District and has committed acts of direct and indirect infringement in this District by, among other things, making, using, offering to sell, selling, and importing products that infringe the Asserted Patents. Moreover, on information and belief, Nokia has regular and established places of business in this District, including at (1) 2525 Highway 121, Lewisville, Texas 75056; (2) 1900 Lakeway Drive, Lewisville, Texas 75057; (3) 1221 Coit Road, Plano, Texas 75075; and (4) 601 Data Drive, Plano, Texas 75075-7839. On information and belief, Nokia also maintains a data center in Plano, Texas. <https://www.nokia.com/about-us/company/worldwide-presence/north-america/>.

FACTUAL BACKGROUND

15. Walter Soto and Alexander Soto are brothers, and the inventors of the claimed subject matter described in the Asserted Patents. Walter Soto has a bachelor's degree in Electrical Engineering, and has worked in the telecommunications industry since 1991. Alexander Soto has a master's degree in Electrical Engineering, and has worked in the telecommunications industry since 2000. The Sotos are the principals of Plaintiff, NextGen Innovations, LLC. As a result of their novel and useful inventions, the United States Patent and Trademark Office ("USPTO") has, to date, granted approximately thirty-four patents to the Sotos, including all of the Asserted Patents.

16. For much of their careers, the Sotos worked for various engineering firms and defense contractors, including but not limited to Hughes Aircraft, Agere, and AT&T, working on projects of various types in multiple subject matter areas such as signal processing, network

protocol processing, wireline communications, wireless communications, optical communications, and application specific integrated circuit chip design.

17. Early in 2003, with the U.S. silicon and telecommunication industry moving its projects and offices overseas, the Sotos decided to start their own company with the intention of innovating and producing high quality products in the U.S. The Sotos initially directed their work on passive optical network technologies because they expected that deployments of such technologies would increase in the coming years, and that significant innovation in the space would be necessary and valuable. To this end, the Sotos worked to identify the most difficult and acute problems in the passive optical network-area. Because the Sotos recognized the value of their work, dedicating resources for patent protection for their innovations was a key business practice in their new company. This focus led to the filing of a number of patent applications, including provisional patent applications and utility patent applications.

18. In September 2003, the Sotos founded UBI Systems, Inc. to develop products and services for new enterprise services for passive optical LANs. The goal was to reduce the operational and capital expenses associated with enterprise-level fiber optic networks. For example, the Sotos sought to solve problems related to the elimination of Ethernet switches and copper-based Ethernet cables. Performance-wise, the Sotos believed they could develop and deploy solutions that would improve upon and replace existing enterprise solutions and, at worst, achieve performance parity with such systems while significantly reducing the electrical power consumed. The Sotos also believed that overall network security would be improved by their solutions, including, for example, eliminating security issues associated with traditional wiring closets by eliminating the need for such closets.

19. In approximately the first half of 2005, the Sotos began exploring other business models based on their expertise and innovations. In particular, the Sotos identified broadband access and related ecosystems as a space where their innovations would both add significant value and be attractive to potential investors. In May 2005, the Sotos founded iPON Systems, Inc. with the purpose of developing silicon and software products that reduced the operational and capital expenses associated with the deployment and maintenance of broadband access fiber optic networks.

20. One of the problems iPON sought to solve was how to scale passive optical network deployments. The Sotos believed that novel hardware and methods that allowed for the reuse of existing routers and switches would be beneficial. The Sotos sought to use small form-factor pluggable (SFP) modules that could effectively and efficiently convert a point-to-point SFP socket into a point-to-multipoint PON socket. Another problem iPON sought to solve was to eliminate the dependency on highly skilled technicians to deploy fiber optic networks. The Sotos believed that this problem could be addressed, at least in part, by reusing the wavelengths of a PON (passive optical network) to perform in-service optical time domain reflectometry (OTDR) tests, for example, that could be controlled by a network operation center (NOC) or remotely by technicians. Yet another problem the Sotos believed could be solved by iPON was eliminating problems related to powering a PON infrastructure. The Sotos believed that existing copper transmission lines (twisted wire-pair or Coax cables) could be used to provide not only broadband communications but also the power necessary for various optical network-specific equipment such as optical network terminals (ONTs) and optical network units (ONUs). Another problem identified by the Sotos was the need to eliminate wavelengths and the associated optical-to-electrical and electrical-to-optical conversion components being proposed for future networks at the time. The Sotos

believed that m-ary technology could be used to solve this problem by increasing the number of bits per symbol in a given transmission.

21. To fund iPON's operations, the Sotos approached venture capitalists, self-funded, and sought partner companies to build an ecosystem of like-minded companies. For instance, the Sotos and iPON sought to build a network of partners that would build upon iPON's innovations to develop the necessary hardware and software components necessary to accomplish iPON's vision of lower cost and easy to deploy high performance fiber optic network product and services.

22. The efforts of the Sotos led to the development of an ecosystem of component suppliers, equipment vendors, and end user service providers comprised of companies such as Finisar, Alcatel-Lucent, and AT&T.

23. For example, beginning approximately in April 2005, iPON began working with AT&T (through the AT&T Access Technology Labs team). AT&T performed an intensive review of iPON's proposed products and services solutions, including proposed capital expense and operation expense savings implicated by iPON's novel solutions. The AT&T Access Technology Labs team is responsible for technical requirements used for AT&T wireline and wireless broadband access networks deployments. Members of AT&T that iPON worked with included, but were not limited to, Raj Savoor (then general manager of AT&T Access Technology Lab), Steve Sposato (then Executive Director of AT&T Network Systems Engineering), Kent McCammon, Gene Edmon, Julie Lorentzen, and Estes Renee. AT&T recognized that iPON's proposed products and services solutions solved real problems, and iPON began to also work with a number of suppliers that could support deployments by AT&T, including but not limited to Alcatel-Lucent (now Nokia) and Finisar.

24. iPON approached Alcatel-Lucent's Internet Products Division (IPD) in approximately the July 2005 timeframe. iPON and Alcatel-Lucent extensively discussed iPON's technology and innovations, including its development of novel PON technology to be integrated into Alcatel-Lucent's 7x50 family of switches and routers. In approximately August 2007, the companies agreed to partner in the development and sale of iPON's technology (along with a third company, Finisar). The parties agreed to a lab trial based on iPON's GPON silicon within an XFP optical transceiver provided by Finisar that plugged into one of IPD's 7x50 products. The goal was to use this work, as well as iPON's work with potential customers (such as AT&T and Verizon), to develop field trials as an early introduction of the novel GPON OLT functionality into Alcatel-Lucent's 7x50 family of switches and routers. Among others at Alcatel-Lucent, iPON worked with Basil Alwan (then-president of IPD), Ralph Ballart (then-IPD CTO), Sunil Khandekar (then-IPD switches product group lead), Kevin Macaluso (then-IPD service router product group lead), Ken Kutzler (then-IPD VP of Engineering), and Linda Garbanati. On information and belief, Nokia agreed to acquire Alcatel-Lucent in 2015 and Nokia closed the acquisition of Alcatel-Lucent in 2016.

25. Many venture capitalists were impressed with iPON's technology and the ecosystem the Sotos were building, particularly given the entrepreneurial, self-funded nature of the Sotos' efforts. Indeed, iPON and the Sotos had poured significant resources into developing their innovations, including patenting their inventions, exploring partnership opportunities with various network suppliers and providers, and getting fabrication work quotes from large manufacturing firms such as the Taiwanese firm TSMC.

26. Despite their efforts, the Sotos saw other companies, including former partners such as Finisar, Alcatel-Lucent, and AT&T, bring their innovations to market. As a result, the Sotos

formed NextGen in October of 2018 for the purpose of licensing the significant and valuable patent portfolio protecting the innovations that they had conceived.

27. NextGen has complied with the marking and other requirements of 35 U.S.C. § 287 for the Asserted Patents.

COUNT I

INFRINGEMENT OF U.S. PATENT NO. 8,238,754

28. Plaintiff realleges and incorporates by reference paragraphs 1 through 27 as if fully set forth herein.

29. On August 7, 2012, the United States Patent and Trademark Office (“USPTO”) duly and legally issued the ’754 patent, entitled “System And Method For Pluggable Optical Modules For Passive Optical Networks.” The named inventors are Alexander I. Soto and Walter G. Soto. A true and correct copy of the ’754 patent is attached as Exhibit A.

30. On November 29, 2018, the Sotos granted Plaintiff an exclusive license to the ’754 patent. Under the exclusive license, Plaintiff was granted all substantial rights in the ’754 patent until its expiration date including, without limitation, the exclusive right to sublicense, sue for infringement, and collect all past, present, and future damages.

31. The ’754 patent relates to, among other things, optical fiber networks. The claimed invention of the ’754 patent sought to solve problems with, and improve upon, optical networking systems. For example, the specification of the ’754 patent teaches the following:

Implementations of the invention may include one or more of the following advantages. A network manager in an optical local area network can provide switching functions of a hub, a switch or a router. A switch configuration in which network managers are aggregated enables a high performance network in a compact apparatus. Connectivity of network

managers and network client adapters to existing conventional routers and switches using industry standard form factor optical modules enables a high performance network upgrade with minimal new equipment. A network client switch can support multiple physical layer ports without necessarily requiring a Layer-2 MAC or switching elements and the associated routing tables and packet memory. The number of optical transceivers and switching elements used to sustain the same number of computing nodes in a LAN via a point-to-multipoint optically coupled network configuration is reduced, thus saving the majority of expense described above.

See '754 patent at 4:55-5:4. The specification also teaches the following:

Aspects of an embodiment of the invention includes enabling Media Access Control (MAC), Transmission Convergence Layer (TC-Layer) and Physical Layer (PHY-Layer) functionality via a plurality of discrete electronic components in an optical module, which can interface to existing Physical Media Attachment (PMA) layer devices or to devices via the Media Independent Interface (MII). This enables a consolidation of a plurality of network equipment layers resulting in cost savings.

See '754 patent at 5:5-13.

32. The inventions claimed in the '754 patent solve various technological problems inherent in optical network systems including, among other things, (1) reducing capital expenditure costs for network operators, and (2) reducing hardware space and other requirements inherent in optical network systems.

33. On information and belief, Nokia makes, uses, offers for sale, sells, and/or imports certain products ("'754 Accused Products"), such as EPON and GPON pluggable devices, that

directly infringe, literally and/or under the doctrine of equivalents, at least claim 1 of the '754 patent.

34. Nokia also knowingly and intentionally induces infringement of at least claim 1 of the '754 patent in violation of 35 U.S.C. § 271(b). Through at least its previous relationship with iPON and the Sotos, and the filing and service of this Complaint, Nokia has had knowledge of the '754 patent and the infringing nature of the '754 Accused Products. Despite this knowledge of the '754 patent, Nokia continues to actively encourage and instruct its customers and end users (for example, through online customer-focused materials) to use the '754 Accused Products in ways that directly infringe the '754 patent. Nokia does so knowing and intending that its customers and end users will commit these infringing acts. Nokia also continues to make, use, offer for sale, sell, and/or import the '754 Accused Products, despite its knowledge of the '754 patent, thereby specifically intending for and inducing its customers to infringe the '754 patent through the customers' normal and customary use of the '754 Accused Products.

35. Nokia has also infringed, and continues to infringe, at least claim 1 of the '754 patent by selling, offering for sale, or importing into the United States, the '754 Accused Products, knowing that the '754 Accused Products constitute a material part of the inventions claimed in the '754 patent, are especially made or adapted to infringe the '754 patent, and are not staple articles or commodities of commerce suitable for non-infringing use. Nokia has been, and currently is, contributorily infringing the '754 patent in violation of 35 U.S.C. §§ 271(c) and (f).

36. The '754 Accused Products satisfy all claim limitations of one or more claims of the '754 patent. A claim chart comparing independent claim 1 of the '754 patent to a representative '754 Accused Product is attached as Exhibit B, which is hereby incorporated by reference in its entirety.

37. By making, using, offering for sale, selling and/or importing into the United States the '754 Accused Products, Nokia has injured Plaintiff and is liable for infringement of the '754 patent pursuant to 35 U.S.C. § 271.

38. As a result of Nokia's infringement of the '754 patent, Plaintiff is entitled to monetary damages in an amount adequate to compensate for Nokia's infringement, but in no event less than a reasonable royalty for the use made of the invention by Nokia, together with interest and costs as fixed by the Court.

39. Nokia's infringing activities have injured and will continue to injure Plaintiff, unless and until this Court enters an injunction prohibiting further infringement of the '754 patent, and, specifically, enjoining further manufacture, use, sale, importation, and/or offers for sale that come within the scope of the patent claims.

COUNT II

INFRINGEMENT OF U.S. PATENT NO. 9,887,795

40. Plaintiff realleges and incorporates by reference paragraphs 1 through 27 as if fully set forth herein.

41. On February 6, 2018, the USPTO duly and legally issued the '795 patent, entitled "System And Method For Performing High-Speed Communications Over Fiber Optical Networks." The named inventors are Alexander Soto and Walter Soto. A true and correct copy of the '795 patent is attached as Exhibit C.

42. On November 29, 2018, the Sotos granted Plaintiff an exclusive license to the '795 patent. Under the exclusive license, Plaintiff was granted all substantial rights in the '795 patent until its expiration date including, without limitation, the exclusive right to sublicense, sue for infringement and collect all past, present, and future damages.

43. The '795 patent relates to, among other things, optical fiber communications generally, and more specifically to m-ary modulation in optical communication network. The claimed invention of the '795 patent sought to solve problems with, and improve upon, optical networking systems. For example, the specification of the '795 patent teaches the following:

The performance of a fiber optic network can be measured by the maximum data throughput rate (or information carrying capacity) and the maximum distance between source and destination achievable (or reach). For Passive Optical Networks (PONs) in particular, additional measures of performance are the maximum number of Optical Networking Units (ONUs) and/or Optical Networking Terminals (ONTs) possible on a network and the minimum and maximum distance between the Optical Line Terminator (OLT) and an ONU/ONT. These performance metrics are constrained by, among other things, amplitude degradation and temporal distortions as a result of light traveling through an optical fiber.

Amplitude degradation is substantially a function of length or distance between two end points of an optical fiber. Temporal distortion mechanisms include intramodal (chromatic) dispersion and intermodal (modal) dispersion. Intramodal dispersion is the dominant temporal dispersion on Single-mode fiber (SMF), while intermodal dispersion is dominant on Multi-mode fiber (MMF). Both types of temporal distortions are measured as functions of frequency or rate of transmission (also referred as line rate of a communication protocol) over distance in MHz·km. Temporal distortions are greater, hence a constraint on network performance, with increasing frequency transmission.

See '795 patent at 1:47-2:4. The specification also teaches the following:

Implementations of the invention may include one or more of the following advantages.

A system is proposed that provides for high-speed communications over fiber optic networks. The system may include the use of the one or more of the following techniques either individually or in combination: m-ary modulation; channel equalization; demultiplexing across multiple fibers, coding and error correction. M-ary modulation allows for increased data throughput for a given line rate due to an increase in the number of bits per symbol transmitted. Channel equalization reduces the effects of temporal distortions allowing for increased reach. Demultiplexing across multiple fibers allows lower lines rates for a given data throughput rate due to the increased aggregate data throughput from the multiplexing. Coding and error correction allows for a greater selection of qualifying optical components that can be used in the network and complements m-ary modulation and channel equalization for overall system performance improvement as measured by transmit energy per bit. These methods when combined (in part or in total) increase the data throughput and reach for fiber optic networks. For PONs in particular, these methods may increase the number of ONU/ONTs and the distance between OLT and ONU/ONT by decreasing the line rate as compared to a conventional communication system of equivalent data throughput.

See '795 patent at 6:1-26.

44. The inventions claimed in the '795 patent solve various technological problems inherent in the optical network systems including, by among other things, teaching how to (1) increase data throughput due to an increase in the number of bits per symbol transmitted, (2) reduce the effects of temporal distortions allowing for increased reach, (3) allow lower lines rates for a given data throughput rate due to the increased aggregate data throughput, (4) allow for a greater selection of qualifying optical components that can be used in the network, (5) complement m-ary

modulation and channel equalization for overall system performance improvement as measured by transmit energy per bit, (6) increase the data throughput and reach for fiber optic networks, and (7) increase the number of ONU/ONTs and the distance between OLT and ONU/ONTs by decreasing the line rate as compared to other communication systems of equivalent data throughput.

45. On information and belief, Nokia makes, uses, offers for sale, sells, and/or imports certain products (“’795 Accused Products”), such as pluggable optical transceiver modules using formats such as CFP2-DCO, that directly infringe, literally and/or under the doctrine of equivalents, at least claim 1 of the ’795 patent.

46. Nokia also knowingly and intentionally induces infringement of at least claim 1 of the ’795 patent in violation of 35 U.S.C. § 271(b). Through at least its previous relationship with iPON and the Sotos, and the filing and service of this Complaint, Nokia has had knowledge of the ’795 patent and the infringing nature of the ’795 Accused Products. Despite this knowledge of the ’795 patent, Nokia continues to actively encourage and instruct its customers and end users (for example, through online customer-focused materials) to use the ’795 Accused Products in ways that directly infringe the ’795 patent. Nokia does so knowing and intending that its customers and end users will commit these infringing acts. Nokia also continues to make, use, offer for sale, sell, and/or import the ’795 Accused Products, despite its knowledge of the ’795 patent, thereby specifically intending for and inducing its customers to infringe the ’795 patent through the customers’ normal and customary use of the ’795 Accused Products.

47. Nokia has also infringed, and continues to infringe, at least claim 1 of the ’795 patent by selling, offering for sale, or importing into the United States, the ’795 Accused Products, knowing that the ’795 Accused Products constitute a material part of the inventions claimed in the ’795 patent, are especially made or adapted to infringe the ’795 patent, and are not staple

articles or commodities of commerce suitable for non-infringing use. Nokia has been, and currently is, contributorily infringing the '795 patent in violation of 35 U.S.C. §§ 271(c) and (f).

48. The '795 Accused Products satisfy all claim limitations of one or more claims of the '795 patent. A claim chart comparing independent claim 1 of the '795 patent to a representative '795 Accused Product is attached as Exhibit D, which is hereby incorporated by reference in its entirety.

49. By making, using, offering for sale, selling and/or importing into the United States the '795 Accused Products, Nokia has injured Plaintiff and is liable for infringement of the '795 patent pursuant to 35 U.S.C. § 271.

50. As a result of Nokia's infringement of the '795 patent, Plaintiff is entitled to monetary damages in an amount adequate to compensate for Nokia's infringement, but in no event less than a reasonable royalty for the use made of the invention by Nokia, together with interest and costs as fixed by the Court.

51. Nokia's infringing activities have injured and will continue to injure Plaintiff, unless and until this Court enters an injunction prohibiting further infringement of the '795 patent, and, specifically, enjoining further manufacture, use, sale, importation, and/or offers for sale that come within the scope of the patent claims.

COUNT III

INFRINGEMENT OF U.S. PATENT NO. 10,263,723

52. Plaintiff realleges and incorporates by reference paragraphs 1 through 27 as if fully set forth herein.

53. On April 16, 2019, the USPTO duly and legally issued the '723 patent, entitled "System And Method For Performing High-Speed Communications Over Fiber Optical Networks."

The named inventors are Alexander Soto and Walter Soto. A true and correct copy of the '723 patent is attached as Exhibit E.

54. On November 29, 2018, the Sotos granted Plaintiff an exclusive license to the '723 patent. Under the exclusive license, Plaintiff was granted all substantial rights in the '723 patent until its expiration date including, without limitation, the exclusive right to sublicense, sue for infringement and collect all past, present, and future damages.

55. The '723 patent is a continuation of the '795 patent and therefore contains the same teachings. Plaintiff therefore realleges and incorporates by reference paragraphs 43 through 44 as if fully set forth herein.

56. On information and belief, Nokia makes, uses, offers for sale, sells, and/or imports certain products ("723 Accused Products"), such as pluggable optical transceiver modules using formats such as CFP2-DCO, that directly infringe, literally and/or under the doctrine of equivalents, at least claim 1 of the '723 patent.

57. Nokia also knowingly and intentionally induces infringement of at least claim 1 of the '723 patent in violation of 35 U.S.C. § 271(b). Through at least its previous relationship with iPON and the Sotos, and the filing and service of this Complaint, Nokia has had knowledge of the '723 patent and the infringing nature of the '723 Accused Products. Despite this knowledge of the '723 patent, Nokia continues to actively encourage and instruct its customers and end users (for example, through online customer-focused materials) to use the '723 Accused Products in ways that directly infringe the '723 patent. Nokia does so knowing and intending that its customers and end users will commit these infringing acts. Nokia also continues to make, use, offer for sale, sell, and/or import the '723 Accused Products, despite its knowledge of the '723 patent, thereby

specifically intending for and inducing its customers to infringe the '723 patent through the customers' normal and customary use of the '723 Accused Products.

58. Nokia has also infringed, and continues to infringe, at least claim 1 of the '723 patent by selling, offering for sale, or importing into the United States, the '723 Accused Products, knowing that the '723 Accused Products constitute a material part of the inventions claimed in the '723 patent, are especially made or adapted to infringe the '723 patent, and are not staple articles or commodities of commerce suitable for non-infringing use. Nokia has been, and currently is, contributorily infringing the '723 patent in violation of 35 U.S.C. §§ 271(c) and (f).

59. The '723 Accused Products satisfy all claim limitations of one or more claims of the '723 patent. A claim chart comparing independent claim 1 of the '723 patent to a representative '723 Accused Product is attached as Exhibit F, which is hereby incorporated by reference in its entirety.

60. By making, using, offering for sale, selling and/or importing into the United States the '723 Accused Products, Nokia has injured Plaintiff and is liable for infringement of the '723 patent pursuant to 35 U.S.C. § 271.

61. As a result of Nokia's infringement of the '723 patent, Plaintiff is entitled to monetary damages in an amount adequate to compensate for Nokia's infringement, but in no event less than a reasonable royalty for the use made of the invention by Nokia, together with interest and costs as fixed by the Court.

62. Nokia's infringing activities have injured and will continue to injure Plaintiff, unless and until this Court enters an injunction prohibiting further infringement of the '723 patent, and, specifically, enjoining further manufacture, use, sale, importation, and/or offers for sale that come within the scope of the patent claims.

COUNT IV

INFRINGEMENT OF U.S. PATENT NO. 10,771,181

63. Plaintiff realleges and incorporates by reference paragraphs 1 through 27 as if fully set forth herein.

64. On September 8, 2020, the USPTO duly and legally issued the '181 patent, entitled "System And Method For Performing High-Speed Communications Over Fiber Optical Networks." The named inventors are Alexander Soto and Walter Soto. A true and correct copy of the '181 patent is attached as Exhibit G.

65. On November 29, 2018, the Sotos granted Plaintiff an exclusive license to the '181 patent. Under the exclusive license, Plaintiff was granted all substantial rights in the '181 patent until its expiration date including, without limitation, the exclusive right to sublicense, sue for infringement and collect all past, present, and future damages.

66. The '181 patent is a continuation of the '723 and '795 patents, and therefore contains the same teachings. Plaintiff therefore realleges and incorporates by reference paragraphs 43 through 44 as if fully set forth herein.

67. On information and belief, Nokia makes, uses, offers for sale, sells, and/or imports certain products ("181 Accused Products"), such as pluggable optical transceiver modules using formats such as CFP2-DCO, that directly infringe, literally and/or under the doctrine of equivalents, at least claim 1 of the '181 patent.

68. Nokia also knowingly and intentionally induces infringement of at least claim 1 of the '181 patent in violation of 35 U.S.C. § 271(b). Through at least its previous relationship with iPON and the Sotos, and the filing and service of this Complaint, Nokia has had knowledge of the '181 patent and the infringing nature of the '181 Accused Products. Despite this knowledge of

the '181 patent, Nokia continues to actively encourage and instruct its customers and end users (for example, through online customer-focused materials) to use the '181 Accused Products in ways that directly infringe the '181 patent. Nokia does so knowing and intending that its customers and end users will commit these infringing acts. Nokia also continues to make, use, offer for sale, sell, and/or import the '181 Accused Products, despite its knowledge of the '181 patent, thereby specifically intending for and inducing its customers to infringe the '181 patent through the customers' normal and customary use of the '181 Accused Products.

69. Nokia has also infringed, and continues to infringe, at least claim 1 of the '181 patent by selling, offering for sale, or importing into the United States, the '181 Accused Products, knowing that the '181 Accused Products constitute a material part of the inventions claimed in the '181 patent, are especially made or adapted to infringe the '181 patent, and are not staple articles or commodities of commerce suitable for non-infringing use. Nokia has been, and currently is, contributorily infringing the '181 patent in violation of 35 U.S.C. §§ 271(c) and (f).

70. The '181 Accused Products satisfy all claim limitations of one or more claims of the '181 patent. A claim chart comparing independent claim 1 of the '181 patent to a representative '181 Accused Product is attached as Exhibit H, which is hereby incorporated by reference in its entirety.

71. By making, using, offering for sale, selling and/or importing into the United States the '181 Accused Products, Nokia has injured Plaintiff and is liable for infringement of the '181 patent pursuant to 35 U.S.C. § 271.

72. As a result of Nokia's infringement of the '181 patent, Plaintiff is entitled to monetary damages in an amount adequate to compensate for Nokia's infringement, but in no event

less than a reasonable royalty for the use made of the invention by Nokia, together with interest and costs as fixed by the Court.

73. Nokia's infringing activities have injured and will continue to injure Plaintiff, unless and until this Court enters an injunction prohibiting further infringement of the '181 patent, and, specifically, enjoining further manufacture, use, sale, importation, and/or offers for sale that come within the scope of the patent claims.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff respectfully requests that this Court enter:

- a. A judgment in favor of Plaintiff that Nokia has infringed, either literally and/or under the doctrine of equivalents, the Asserted Patents;
- b. A judgment and order requiring Nokia to pay Plaintiff its damages, costs, expenses, and pre-judgment and post-judgment interest for Nokia's infringement of the Asserted Patents;
- c. A judgment and order requiring Nokia to provide an accounting and to pay supplemental damages to Plaintiff, including without limitation, pre-judgment and post-judgment interest;
- d. A judgment and order finding that this is an exceptional case within the meaning of 35 U.S.C. § 285 and awarding to Plaintiff its reasonable attorneys' fees against Plaintiff; and
- e. Any and all other relief as the Court may deem appropriate and just under the circumstances.

DEMAND FOR JURY TRIAL

Plaintiff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of any issues so triable by right.

Dated: August 9, 2022

Respectfully submitted,

/s/ Benjamin T. Wang
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